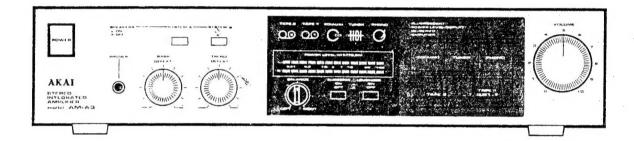


AKAL SERVICE MARKE



STEREO INTEGRATED AMPLIFIER

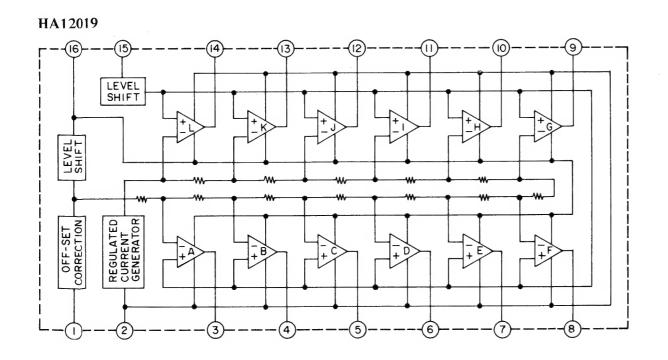
MODELAM-A3

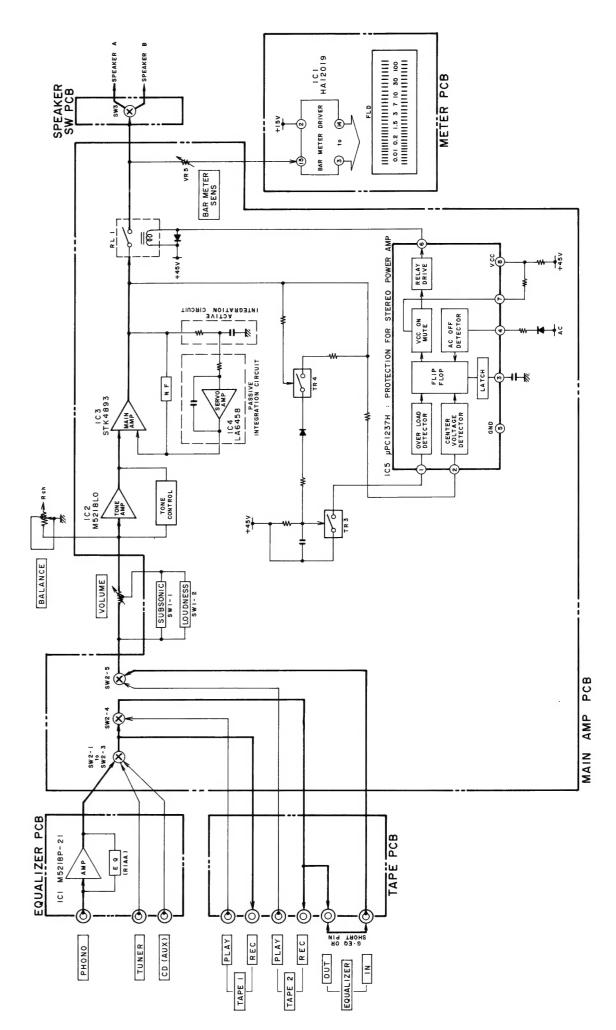
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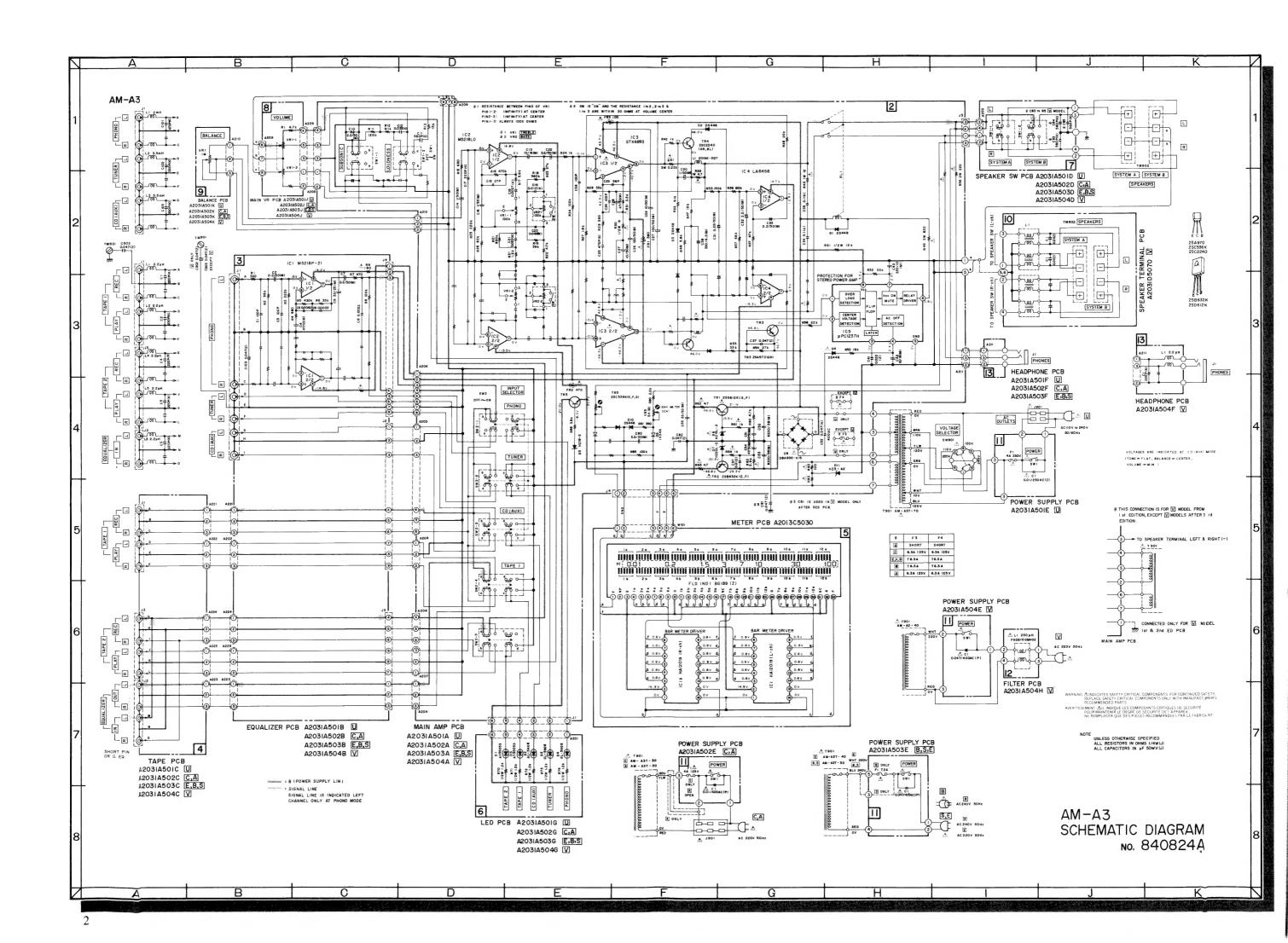
MODELAM-A3

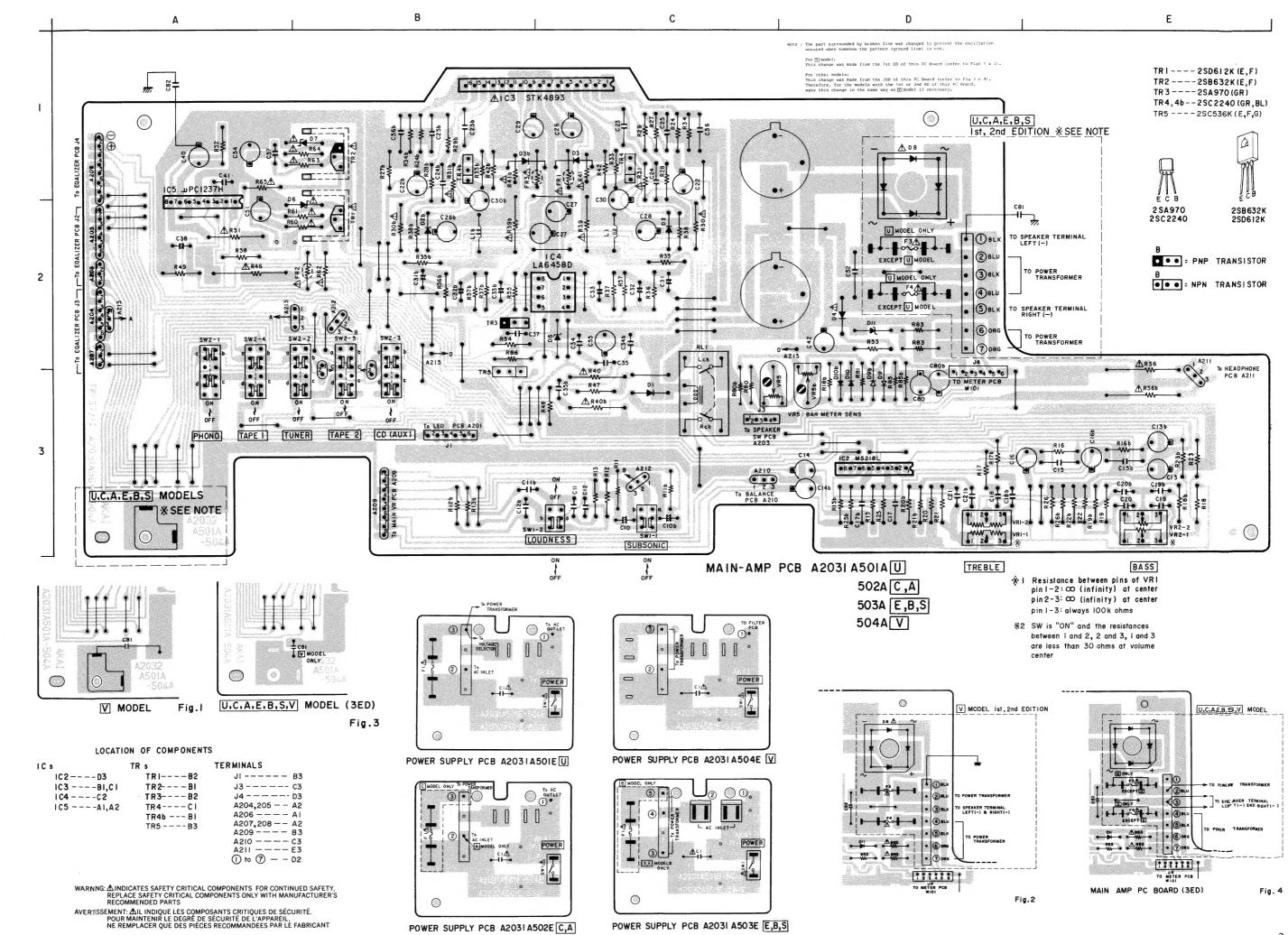
SCHEMATIC DIAGRAM AND PC BOARD

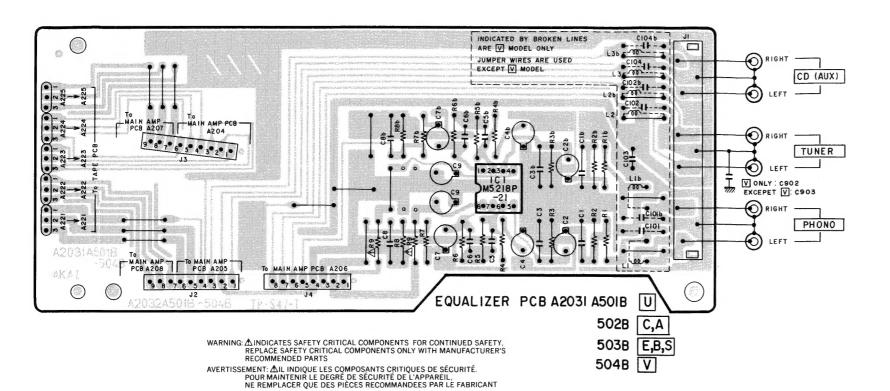
1. SC]	HEMATIC DIAGRAM OF ICs	1
2. BL	OCK DIAGRAM	1
3. SC	HEMATIC DIAGRAM	2
4. MA	IN-AMP PC BOARD, POWER SUPPLY PC BOARD	3
5. BA	LANCE PC BOARD, EQUALIZER PC BOARD, FILTER PC BOAR	D,
HE	ADPHONE PC BOARD, LED (1) PC BOARD, MAIN VR PC BOAR	RD,
ME	TER PC BOARD, SPEAKER SW PC BOARD, SPEAKER TERMINA	١L
PC	BOARD, TAPE PC BOARD	4

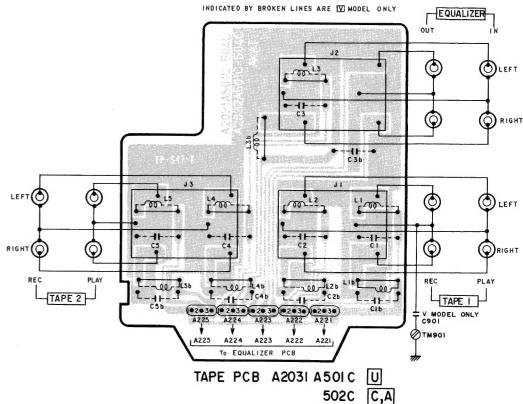


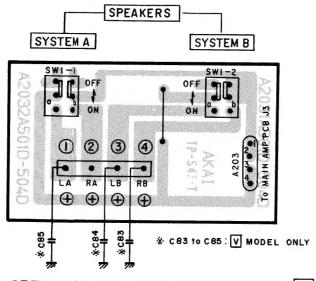


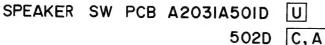






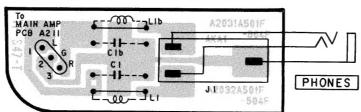






503D E, B, \$ 504D V

INDICATED BY BROKEN LINES ARE WMODEL ONLY



HEADPHONE PCB A2031 A501F U

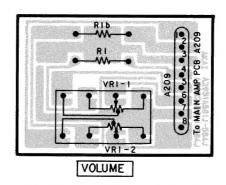
To MAIN AMP PCB A210 €2€3€ A210 BALANCE

502F C,A 503F E,B,S 504F V

RIGHT -- LEFT

BALANCE PCB A2031 A501K U

502K C,A 503K E,B,S 504K V



MAIN VR PCB A2031A501J U

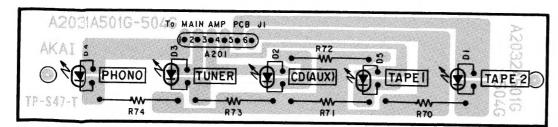
502J C,A 503J E,B,S 504J V

L SPEAKERS R 3 4 AMP PCB 1 2 TO SPEAKER SW PCB TO SPEAKER

503C E,V,S

504C V

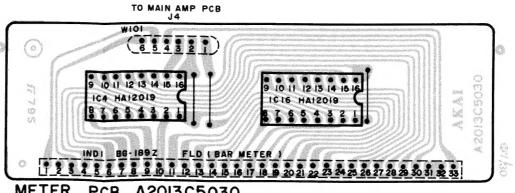
SPEAKER TERMINAL PCB V A2031D5070



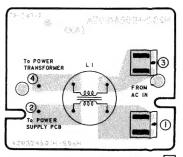
LED PCB A2031A501G U

502G 503G E,B,S

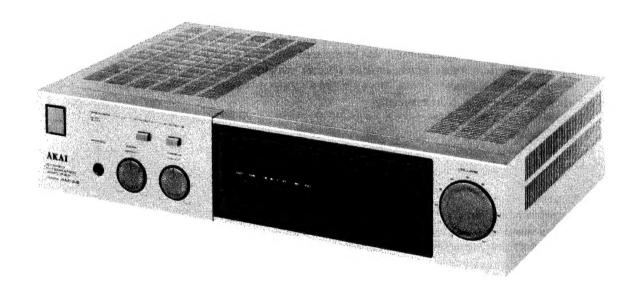
504G V







FILTER PCB A2031 A504H V



STEREO INTEGRATED AMPLIFIER MODEL AM-A3

SECTION 1	SERVICE MANUAL	3
SECTION 2	PARTS LIST	11

SAFETY INSTRUCTIONS

SAFETY CHECK AFTER SERVICING

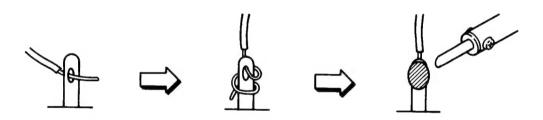
Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for \boxed{C} or \boxed{A} , specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks, line-in-out jacks etc.)

PRECAUTIONS DURING SERVICING

- 1. Parts identified by the \triangle symbol parts are critical for safety. Replace only with parts number specified.
- 2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing microswitch (especially in turntable)
- 5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.

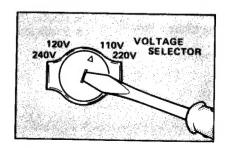


- 6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- 9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

VOLTAGE CONVERSION

Models for Canada, USA, Europe, UK and Australia are not equipped with this facility. Each machine is preset at the factory according to destination, but some machines can be set to 110V, 120V, 220V, or 240V as required. If your machine's voltage can be converted:

Before connecting the power cord, turn the VOLTAGE SELECTOR located on the rear panel with a screwdriver until the correct voltage is indicated.



SECTION 1

SERVICE MANUAL

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For	basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNIC	AL

MANUAL.

I. SPECIFICATIONS

RATED POWER OUTPUT	8 ohms	4 ohms	
20Hz to 20kHz	45W/0.05%	45W/0.08%	
POWER OUTPUT (BY FTC)	8 ohms	4 ohms	
20Hz to 20kHz	50W/0.05%	52W/0.08%	
1kHz	52W/0.05%	53W/0.08%	
MUSIC POWER (BOTH CHANNEL)	240W		
POWER BANDWIDTH (IHF -3dB, 8ohms)	5Hz to 60kHz	(0.2%)	
S/N (IHF-A)			
PHONO	72dB		
CD (AUX)	95dB		
RESIDUAL NOISE (80hms)	0.5mV		
CHANNEL SEPARATION (IHF, 1kHz)	55dB		
DAMPING FACTOR (1kHz, 8ohms)	50		
REQUIRED SPEAKER IMPEDANCE	A or B: 4 to	16 ohms	
	A + B : 8 to 1	6 ohms	

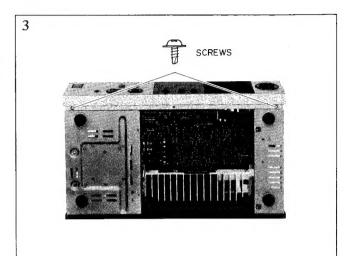
PRE AMPLIFIER SECTION

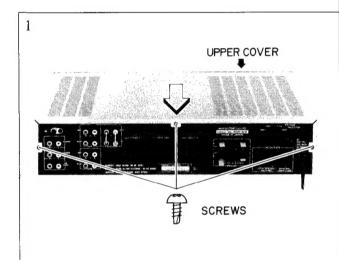
THE THIRD ENTIRE DECTION	
INPUT SENSITIVITY/IMPEDANCE	
PHONO	2mV/47kohms
CD (AUX)	150mV/47kohms
TAPE	150mV/47kohms
OUTPUT LEVEL/IMPEDANCE	
TAPE REC	150mV/1kohms
FREQUENCY RESPONSE	
PHONO (RIAA DEVIATION)	±0.5dB
CD (AUX)	5Hz to 80kHz (-3dB)
TONE CONTROL	
BASS	±8dB
TREBLE	±8dB
LOUDNESS CONTROL	
(VOLUME SET AT -30dB POSITION)	100Hz/+9dB
	10kHz/+5dB
PHONO MAX. INPUT LEVEL	150mV
LOW CUT FILTER (SUBSONIC)	-3dB/18Hz
POWER REQUIREMENTS	120V, 60Hz for USA & Canada
	220V, 50Hz for Europe except UK
	240V, 50Hz for UK & Australia
	110/102/220/240V, 50/60Hz switchable for other countries
DIMENSIONS	440 (W) × 98 (H) × 255 (D) mm
	$(17.3 \times 3.9 \times 10 \text{ inches})$
WEIGHT	6.15kg (13.53 lbs)
* F	

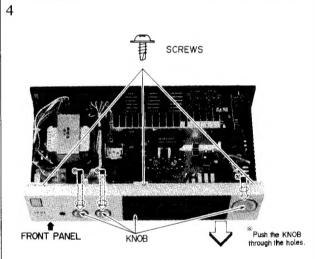
^{*} For improvement purposes, specifications and design are subject to change without notice.

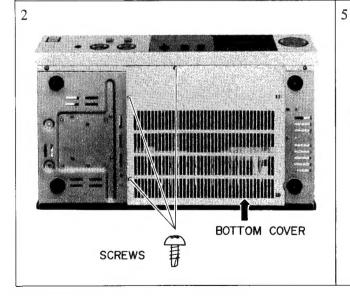
II. DISMANTLING OF UNIT

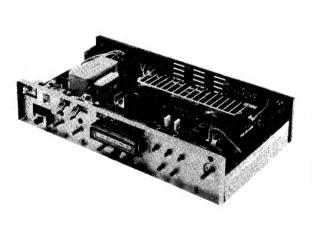
In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.











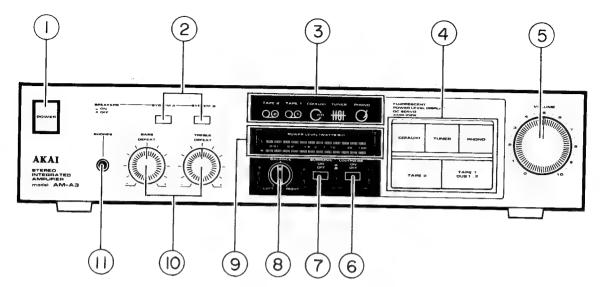


Fig. 3-1

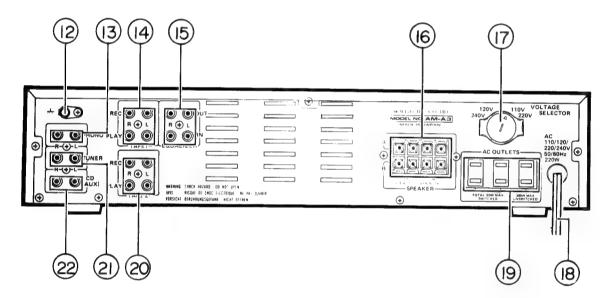


Fig. 3-2

- 1. POWER SWITCH
- SPEAKER SELECTOR BUTTONS (SYSTEM A AND SYSTEM B)
- 3. INPUT SOURCE INDICATORS
 - (PHONO, TUNER, CD (AUX), TAPE 1 AND TAPE 2)
- INPUT SOURCE SELECTOR BUTTONS (PHONO, TUNER, CD (AUX), TAPE 1 and TAPE 2)
- 5. VOLUME CONTROL
- 6. LOUDNESS BUTTON
- 7. SUBSONIC BUTTON
- 8. BALANCE CONTROL
- 9. POWER LEVEL INDICATOR
- TONE (BASS, TREBLE) CONTROLS

- 11. HEADPHONE JACK
- 12. GROUND TERMINAL
- 13. PHONO JACKS
- 14. TAPE 1 (REC AND PLAY) JACKS
- 15. EQUALIZER (IN AND OUT) JACKS
- 16. SPEAKER TERMINALS
- 17. VOLTAGE SELECTOR SWITCH (U MODEL ONLY)
- 18. AC POWER CORD
- 19. AC OUTLETS (U,C,A MODELS ONLY)
- 20. TAPE 2 (REC AND PLAY) JACKS
- 21. TUNER JACKS
- 22. CD (AUX) JACKS

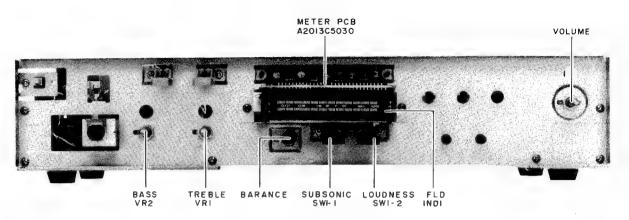


Fig. 4-1 Front View

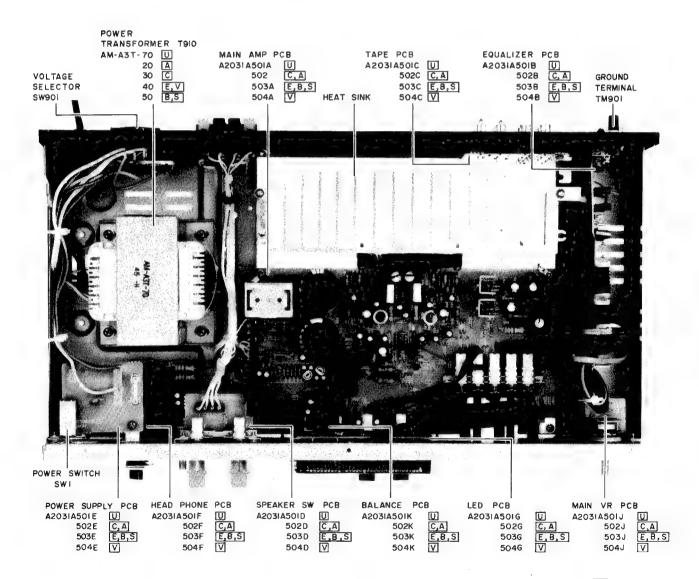


Fig. 4-2 Top View (U MODEL)

V. AMPLIFIER SECTION ADJUSTMENT

5-1 THE INSTRUMENT CONNECTION

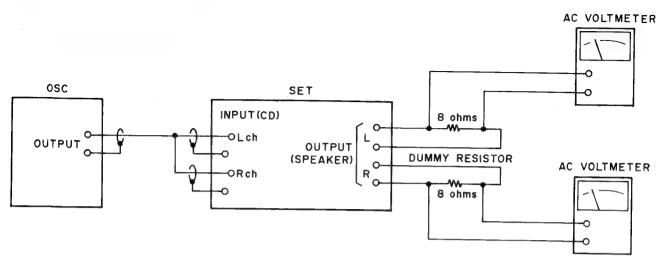


Fig. 5-1 Instrument Corrections for Amplifire Section Adjustment

5-2 MAIN AMP PC BOARD ADJUSTMENT POINTS

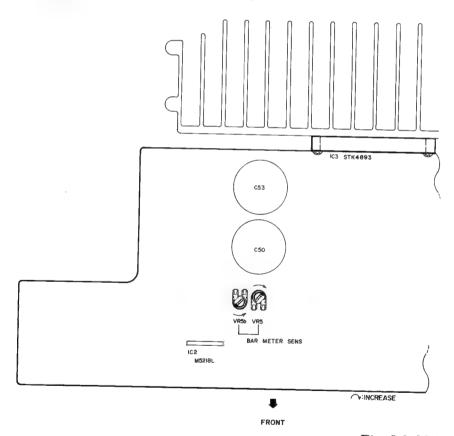


Fig. 5-2 Main-Amp PC Board

5-3 BAR (POWER LEVEL) METER ADJUSTMENT

- Set VOLUME to maximum, TONE CONTROL to flat, BALANCE to center and LOUDNESS and SUBSONIC to off.
- Supply 1kHz to CD (AUX) input jacks (both Left and Right CH), and adjust OSC output so that the both AC Voltmeters indicate 9.0V.
 - (If the AC meter indication is diffrent between
- Left CH and Right CH, adjust the lower voltage channel 9V.)
- 3) Adjust VR5 so that the BAR METER indicates 10W.
- 4) Adjust OSC output so that the AC voltmeter indicates 8.0V, then confirm that the BAR METER indicates 7W.

VI. PC BOARD TITLE AND IDENTIFICATIONS

PC BOARD	TITLE	PC BOARD NUMBER	REMARKS
MAIN AMP	PC BOARD	A2031A501A	U
		502A	C,A
		503A	E,B,S
		504A	V
EQUALIZER	PC BOARD	A2031A501B	U
		502B	C,A
		503B	E,B,S
		504B	V
TAPE	PC BOARD	A2031A501C	U
		502C	C,A
		503C	E,B,S
		504C	V
SPEAKER SW	PC BOARD	A2031A501D	U
		502D	C,A
		503D	E,B,S
		504D	V
POWER SUPPLY	PC BOARD	A2031A501E	U
		502E	C,A
		503E	E,B,S
		504E	V
HEADPHONE	PC BOARD	A2031A501F	U
		502F	[C,A]
		503F	E,B,S
		504F	V
LED	PC BOARD	A2031A501G	U
		502G	C,A
		503G	E,B,S
		504G	V
FILTER	PC BOARD	A2031A504H	V
MAIN VR	PC BOARD	A2031A501J	U
		502J	C,A
		503J	E,B,S
		504J	V
BALANCE	PC BOARD	A2031A501K	U
		502K	C,A
		503 K	E,B,S
		504K	V
SPEAKER TERMINAL	PC BOARD	A2031D5070	V
METER	PC BOARD	A2013C5030	

SECTION 2

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PARTS LIST

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2. MAIN AMP PC BOARD				14	
3. EQUALIZER PC BOARD					
4. TAPE PC BOARD					
5. METER PC BOARD				F. 9. 1	
6. LED PC BOARD	and the contract of the contra	化多型线 医多种性畸形	F. C. THE 4.85	The state of the s	
7. SPEAKER SW PC BOARD					
8. MAIN VR PC BOARD					
9. BALANCE PC BOARD					
10. SPEAKER TERMINAL PC BOARD .				4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
11. POWER SUPPLY PC BOARD			19 1 1 H 1 H 1 H 1 H 1	A STATE OF THE STA	
12. FILTER PC BOARD					
13. HEAD PHONE PC BOARD	ふしょく ライ・ケー・ポック		the first first transfer	4. 12. 12. 12. 12.7	
14. ASSEMBLY BLOCK		and the second second			
15. FINAL ASSEMBLY BLOCK	安长"等的。等点。		PERSONAL PROPERTY.		
INDEX	しいしゅう くいだいいてゃ				

Carlo Carlo William Paul Bright Market

ATTENTION

- 1. When placing an order for parts, be sure to list the parts no. model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
- 2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
- 3. Because parts number and parts unit supply in the Preliminary Parts List may be partially changed, please use this parts list for all future reference.

HOW TO USE THIS PARTS LIST

- 1. This Parts List shows the parts that are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts". Select and order such parts from the "Common List for Service Parts".
- 2. The Recommended Spare Parts shows those parts in the Parts List which are considered particularly important for service.
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not be supplied in principle.
- 4. How to read list
 - a) Mechanism Block

b) P.C Board Block

2. HEAD BASE BLOCK

6. SYS. CON. P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
2-1 <u>x</u>	BH-T2023A320A	HEAD BASE BLOCK GX-F66R	6-1	BA-T2034A070	A PC SYS CON BLK GX-F44R
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C	6-IC1	EI-324536	IC HD14049BP
2-3	ZS-477876	PAN20×03STL CMT	6-IC2	EI-336801	IC MB8841-564M
2-4	ZS-536488	BID20×08STL CMT	6-IC3	EI-331661	IC SN7405N
2-5	ZG-402895	CS ANGLE ADJUST SPRING	6-IC4	EI-336725	IC M54527P
† †	\ \		6-TR1to4	ET-200985	TR 2SC2603 F,G
	SP (Ser	SP (Service Parts) Classification		ET-554657	TR 2SA733A P.O
\	A11	66-22 (- 314411-1-1)	6-D1	ED-318292	D SILICON H 1S2473T-77 T26
\	A small "x" indicates the inability to		6-D2to4	ED-308952	D GERMA V 1K34A-LR F07
\		at particular part in the Photo or	6-D5to10	ED-318292	D SILICON H 1S2473T-77 T26
\	Illustra	tion.	6-X1	EI-318384	OSC X'TAL NC-18C
	This number corresponds with the individual parts index number in that figure		T T	T	3.579545MHZ
				SP (Serv	ice Parts) Classification
<u></u>		mber corresponds with the Figure—		This refe with syn Diagram	rence numbers corresponds abol numbers of Schematic s.

5. Both the kind of part and installation position can be determined by the Parts Number. To determine where a part's number is listed, utilize Parts Index at end of Parts List. It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index.

WARNING

▲ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS

AVERTISSEMENT

⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRE DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LE FABRICANT

RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF.	PARTS NO.	DESCRIPTION
NO.		
1	BT-352434	△ TRANS POWER AM-A3T-20 (A)
2	BT-352433	△ TRANS POWER AM-A3T-30 (C)
3	BT-352435	△ TRANS POWER AM-A3T-40 (IE,V)
4	BT-352436	△ TRANS POWER AM-A3T-50 (B,S)
5	BT-352430	△ TRANS POWER AM-A3T-70 (U)
6	ED-309341	D GERMA H 1 K34A
7	ED-349656	D LED AY5505S
8	ED-337391	D LED GL5NG6 GRN
9	ED-337391 ED-200749	D SILICON DBA60-K15 400/6.0A
10	ED-348990	D SILICON H DS446
11	ED-301911	D SILICON H DS448
12	ED-306320	D ZENER H HZ15 2
13	ED-306320 ED-324013	D ZENER H HZ20 2
14	ED-329056	D ZENER H HZ22 2
15 N		D ZENER H HZ4FA F10 B2
		△ FUSE SEMKO T 250V 2.00A (B)
16	EF-601301 EF-242605	△ FUSE SEMKO T 250V 2.00A (B) △ FUSE SEMKO T 250V 6.30A (E,V,B,S)
17 18	EF-242605 EF-306952	△ FUSE TSC A 250V 4.00A (U)
		△ FUSE TSC 125V 4.00A (C)
19	EF-306957	↑ FUSE TSC 125V 4.00A (C)
20	EF-346115	
21	EI-315799	IC HA12019 IC LA6458D
22	EI-344490	IC M5218L0
23	EI-337228	IC M5218P-21
24 25	EI-344764	IC STK4893
26	EI-352640 EI-354080	IC UPC1237H
27	EM-336916	IND FL BG189Z GRAPH
28	EQ-337159	RELAY POW G4Z-2282P 2N0 24V
29	ER-337756	↑ R FUSE ERD2FC S10 1/4W 4700G
30	ER-349423	⚠ R FUSE ERD2FC S10 1/4W 5600G
31	ER-349423 ER-200746	⚠ R FUSE ERD2FC 1/4W 1000G
32	ES-337902	↑ SW PUSH SDLD1P 01-1
33	ES-349070	△ SW SELECTOR YKS11-0002 02-4 (U)
33	E3-349070	(SW901)
34	ES-352624	SW PUSH ESB-62838 2 THROW
35	ES-352624 ES-352632	SW PUSH ESB-62839 5-THROW
36	ES-352632	SW PUSH ESB-62949
37	ET-305463	TR 2SA970 GR,BL
38	ET-303463	TR 2SB632K E.F
		TR 2SC2240 GR,BL
39 40	ET-307195 ET-403413	TR 2SC2240 GR,BL
40	ET-403413 ET-310148	TR 2SD612K E,F
		R S-FIX H D8 3P 502
42 43	EV-315540	VR ROTARY 16P10×1T W105
	EV-352622	VR ROTARY 16P10X11 W103 VR ROTARY 16P20X B104
44	EV-352621	
45 46	EV-352645 EV-352646	VR ROTARY 16P20X3R C104 OPEN VR ROTARY 16P20X3S C104 SHORT
+0	EV-332040	VK KOTAKI 10120×35 C104 5HOKI

"NOTE" N: New Parts

SYMBOL FOR DESTINATION

A: AAL (U.S.A.)

B: UK (England)

C: CSA (Canada)

E: CEE (Europe)

S: SAA (Australia)

U: U/T (Universal Area)

V: VDE (West Germany)

1. PC BOARD BLOCK

REF. PARTS NO. DESCRIPTION

MAIN PC BOARD BLOCK

1-1A BA-A2031A020A PC MAIN BLK AM-A3 (U)
1-1B BA-A2031A020B PC MAIN BLK AM-A3 (C)
1-1C BA-A2031A020C PC MAIN BLK AM-A3 (E,S)
1-1D BA-A2031A020D PC MAIN BLK AM-A3 (V)
1-1E BA-A2031A020E PC MAIN BLK AM-A3 (B)
1-1F BA-A2031A020F PC MAIN BLK AM-3 (A)

NOTE: MAIN PC BOARD BLOCK Consists of following PC BOARDS

MAIN AMP PC BOARD
EQUALIZER PC BOARD
TAPE PC BOARD
LED PC BOARD
SPEAKER SW PC BOARD
MAIN VR PC BOARD
BALANCE PC BOARD
POWER SUPPLY PC BOARD
FILTER PC BOARD
HEAD PHONE PC BOARD

2. MAIN AMP PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
2-IC2	EI-337228	IC M5218L0
2-IC3	EI-352640	△ IC STK4893
2-IC4	EI-344490	IC LA6458D
2-IC5	EI-354080	IC UPC1237H
2-TR1	ET-310148	•
2-TR2	ET-322598	⚠ TR 2SB632K E,F
2-TR3	ET-305463	TR 2SA970 GR,BL
2-TR4	ET-307195	TR 2SC2240 GR,BL
2-TR5	ET-403413	TR 2SC536NP H
2-D1	ED-301911	D SILICON H DS448
2-D2	ED-348990	D SILICON H DS446
2-D3	ED-301911	D SILICON H DS448
2-D4	ED-348990	△ D SILICON H DS446
2-D5	ED-329056	D ZENER H HZ22 2
2-D6	ED-306320	△ D ZENER H HZ15 2
2-D7	ED-324013	⚠ D ZENER H HZ20 2
2-D8	ED-200749	△ D SILICON DBA60-K15 400/6.0A
2-D9	ED-309341	D GERMA H 1K34A
2-D10	ED-301911	D SILICON H DS448
2-D11	ED-305704	D ZENER H HZ4 B2
2-SW1	ES-352639	SW PUSH ESB-62949
2-SW2	ES-352632	
2-VR1	EV-352645	
2-VR2	EV-352646	
2-VR5	EV-315540	R S-FIX H D8 3P 502
2-RL1	EQ-337159	
2-FR1	ER-349423	⚠ R FUSE ERD2FC S10 1/4W 5600G
2-FR2	ER-337756	↑ R FUSE ERD2FC S10 1/4W 4700G
2-FR3	ER-200746	
2-R 30	ER-333598	
2-R31	ER-315082	A R CB H F10 RDS 1/4W 332J
2-R 39	ER-352651	A R OMF H S15 FS 1W 4R7J
2-R40 2-R41	ER-337754	A ROMFH S15 FS 1W 100J
2-R41	ER-345466 ER-333067	_
2-R40	ER-333609	⚠ R OMF H S20 FS 2W 821J ⚠ R CB H S15 FS RDS 1/2W 123J
2-R56	ER-658034	A ROMF H FS 2W 221J
2-R60	ER-323075	A R CB H S10 FS RDS 1/4W 472J
2-R61	ER-323074	A CB H S10 FS RDS 1/4W 4/2J
2-R 62	ER-302241	⚠ R CB H S10 FS RDS 1/4W 4R7J
2-R63	ER-328071	A R CB H S10 FS RDS 1/4W 392J
2-R64	ER-323074	A R CB H S10 FS RDS 1/4W 102J
2-R65	ER-302241	A R CB H S10 FS RDS 1/4W 4R7J
2-R83	ER-322591	A R CB H S10 FS RDS 1/4W 101J
2-C10,31	EC-343855	
	EC-325320	C EC V F05 NP AWA 2R2M 50DC
		C EC V CUT NP 04D 331M 6.3DC
2-C50		C EC V CUT 822 56.0DC
2-C52		C MMY V CUT CF921 473K 400DC
2-C53	EC-354664	C EC V CUT 822 56.0DC
2-F3A	EF-346115	△ FUSE TSC 125V 6.30A (C,A)
2-F3B	EF-242605	
		(E.V.B.S)
2-F4A	EF-346115	△ FUSE TSC 125V 6.30A (C.A)
2-F4B	EF-242605	△ FUSE SEMKO T 250V 6.30A
		(E,V,B,S)
		(, ,-,-)

3. EQUALIZER PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
3-IC1	EI-344764	IC M5218P-21
3-L1	EO-338420	COIL FIX 2 FL12R202E 202K (V)
3-L2	EO-345907	COIL FIX 1 LALO3KH 3R3K (V)
3-L3	EO-345907	COIL FIX 1 LALO3KH 3R3K (V)
3-R9	ER-200939	R CB H S10 FS RDS 1/4W 181J
3-J1	EJ-344370	PIN J YKC21-0081 P 6 P

4. TAPE PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
		COIL FIX 1 LAL03KH 2R2M (V) PIN J YMC21-0063 P 4P

5. METER PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION			
5-IC1	EI-315799	IC HA12019			
5-IND1	EM-336916	IND FL BG189Z GRAPH			

6. LED PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
6-D1	ED-349656	D LED AY5505S
6-D2 to 4	ED-337391	D LED GL5NG6 GRN
6-D5	ED-349656	D LED AY5505S
6-R 70	•	
to 4	ER-617940	R CB H RD 1/2W 122J

7. SPEAKER SW PC BOARD

REF. PARTS NO.		DESCRIPTION					
7-SW1	ES-352624 SV	V PUSH FSR_62838 2 THROW					

8. MAIN VR PC BOARD

REF. NO.	PARTS NO.	DESCRIPTION
8-VR1	EV-352621	VR ROTARY 16P20X B104

9. BALANCE PC BOARD

REF. PARTS NO. DESCRIPTION

9-VR1 EV-352622 VR ROTARY 16P10×1T W105

10. SPEAKER TERMINAL PC BOARD

REF. PARTS NO. DESCRIPTION

10-L1 EO-342936 COIL BALUN 10-TM902 EJ-349401 TERMINAL LEVER YKD21-0027 8P

11. POWER SUPPLY PC BOARD

REF. PARTS NO. DESCRIPTION

12. FILTER PC BOARD

REF. PARTS NO. DESCRIPTION

12-FL1 EO-338409 COIL LF FKOB160MH02 250UH (V)

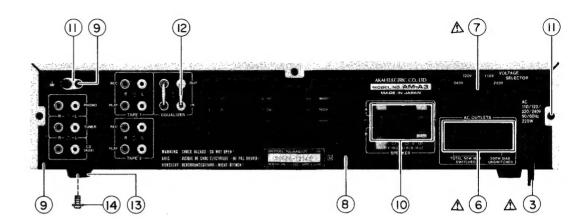
13. HEAD PHONE PC BOARD

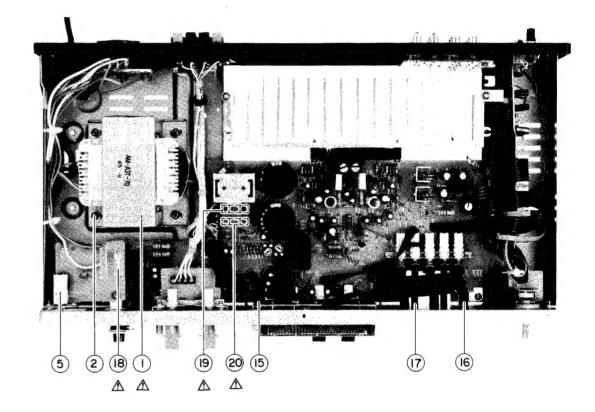
REF. PARTS NO. DESCRIPTION

13-L1 EO-336934 COIL FIX 1 LAL03KH 2R2M (V) 13-J1 EJ-343380 PHONE J 3P HLJ0541-040 6.3 (EXCEPT

13-J1B EJ-355012 PHONE J 3P HLJ0541-010 6.3 (BL)

ASSEMBLY BLOCK





14. ASSEMBLY BLOCK

REF.	PARTS NO.	DESCRIPTION
14-1A	·BT-352432	↑ TRANS POWER AM-A3T-70 (U)
14-1B	BT-352433	↑ TRANS POWER AM-A3T-30 (C)
14-1C	BT-352434	↑ TRANS POWER AM-A3T-20 (A)
14-1D	BT-352435	⚠ TRANS POWER AM-A3T-40 (E,V)
14-1E	BT-352436	↑ TRANS POWER AM-A3T-50 (B,S)
14-2	ZS-346742	ST BID40×08STL CMT CPU
14-3A	EW-354515	AC CORD 2 CORES KP-700A, VFF-CB
		U/T (U)
14-3B	EW-349427	⚠ AC CORD 2 CORES KP-8W, SPT-2 UC
		(C)
14-3C	EW-349428	⚠ AC CORD 2 CORES KP-8W, SPT-1 UC
		(A)
14-3D	EW-354625	⚠ AC CORD 2 CORES KP-419C,
		LTCE-2F E (E)
14-3E	EW-354513	△ AC CORD 2 CORES KP-419C,
		LTCE-2F EV (V)
14-3F	EW-354512	⚠ AC CORD 2 CORES LTBS-2F-CB B
		(B)

REF. NO.	PARTS NO.	DESCRIPTION
14-3G	EW-354514	AC CORD 2 CORES KP-560, LTSA2F-CB S (S)
14-4x	EZ-631945	STRAIN RELIEF SR-4N-4 (C,A)
14-5	ES-337902	△ SW PUSH SDLD1P 01-1 (SW1)
14-6A	EJ-337405	△ SOCKET OUTLET S2T733T164
		JUC 3x2P (U) (J901)
14-6B	EJ-352642	▲ SOCKET OUTLET S2T733T114T
		(C,A) (J901)
14-7	ES-349070	△ SW SELECTOR TKS11-0002 D2-4
		(U) (SW901)
14-8A	SP-349930A	PANEL REAR AM-A3 (U)
14-8B	SP-349930B	PANEL REAR AM-A3 (C,A)
14-8C	SP-349930C	PANEL REAR AM-A3 (E,V)
14-8D	SP-349930D	PANEL REAR AM-A3 (B,S)
14-9	ZS-308846	T2BR30×08STL BZN PROJECTION
14-10A	EJ-351485	TERMINAL PUSH YKD21-0148A S 8P
		(EXCEPT V)
14-10B	EJ-349401	TERMINAL LEVER YKD21-0027 8P (V)

REF. NO.	PARTS NO.	DESCRIPTION
14-11	EJ-329610	TERMINAL W/SCREW UB-0067 L 1P
14-12	EJ-348218	PLUG SHORT PIN P2138
14-13	SA-202118	FOOT
14-14	ZS-498273	T2BR30×08STL CMT PW080
14-15	ZW-698308	RV NYL30×055 BL
14-16	TA-349937	JOINT (B)
14-17	TA-349938	JOINT (C)
14-18A	EF-306952	⚠ FUSE TSC A 250V 4.00A (U) (F1)
14-18B	EF-306957	⚠ FUSE TSC 125V 4.00A (C) (F1)
14-18C	EF-601301	⚠ FUSE SEMKO T 250V 2.00A (B) (F1)
14-19A	EF-346115	↑ FUSE TSC 125V 6.30A (C,A) F3)
14-19B	EF-242605	A FUSE SEMKO T 250V 6.30A
		(E,V,B,S) (F3)
14-20A	EF-346115	△ FUSE TSC 125V 6.30A (C,A) (F4)
14-20B	EF-242605	△ FUSE SEMKO T 250V 6.30A
		(E,V,B,S) (F4)
14-21x	ZW-305013	RV P0P32 (A)

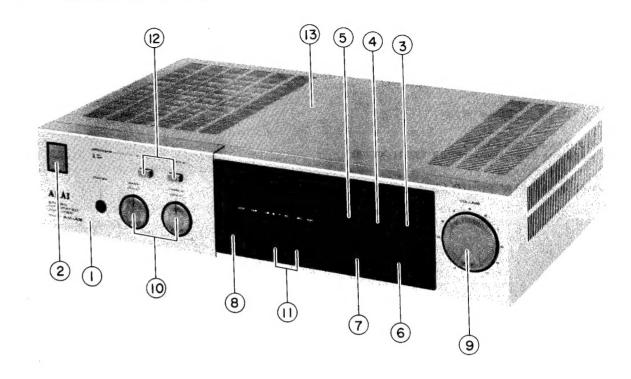
15. FINAL ASSEMBLY BLOCK

REF.	PARTS NO.	DESCRIPTION
15-1	BD-A2031A030A	PANEL FRONT BLK AM-A3
15-1P	BD-A2031A030B	PANEL FRONT BLK AM-A3-P
15-1B	BD-A2031A030C	PANEL FRONT BLK AM-A3-B
15-2	SK-343017C	KNOB POWER (2)
15-2P	SK-343017D	KNOB POWER (2)-P
15-2B	SK-343017F	KNOB POWER-B
15-3	SK-349943A	KNOB (C-1) (EXCEPT BL)
15-3B	SK-349943D	KNOB (C-1)-B (BL)
15-4	SK-349943B	KNOB (C-2) (EXCEPT BL)
15-4B	SK-349943E	KNOB (C-2)-B (BL)
15-5	SK-349943C	KNOB (C-3) (EXCEPT BL)
15-5B	SK-349943F	KNOB (C-3)-B (BL)
15-6	SK-349941A	KNOB (D-1) (EXCEPT BL)
15-6B	SK-349941E	KNOB (D-1)-B (BL)
15-7	SK-349941B	KNOB (D-2) (EXCEPT BL)
15-7B	SK-349941F	KNOB (D-2)-B (BL)
15-8	SK-332591A	KNOB VOLUME (A) (EXCEPT BL)
15-8B	SK-332591E	KNOB VOLUME (A-5) (BL)
15-9	SK-345375G	KNOB VOLUME (E)
15-9P	SK-345375D	KNOB VOLUME (B)-P
15-9B	SK-345375K	KNOB VOLUME (H)-B
15-10	SK-349939A	KNOB (A)
15-10P	SK-349939B	KNOB (A)-P
15-10B	SK-349939C	KNOB (A)-B
15-11	SK-349940A	KNOB (B-1)
15-12	SK-349940B	KNOB (B-2)
15-12P	SK-349940C	KNOB (B-3)
15-12B	SK-349940A	KNOB (B-1)
15-13	SP-349925A	COVER UPPER
15-13P	SP-349925B	COVER UPPER-P
15-13B	SP-349925C	COVER UPPER-B

SYMBOL FOR COLOR VARIATION

NON: STANDARD COLOR
P: PEARL SHADOW
B or BL: BLACK

FINAL ASSEMBLY BLOCK



INDEX

PARTS NO.	REF. NO	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO
BA-A2031A020A		ED-349656	6-D5	EO-336934	13-L1	ET-403413	2-TR5	SP-349925A	15.12
BA-A2031A020B		EF-242605	2-F3B	EO-338409	12-FL1	EV-315540	2-1 K 5 2-V R 5	SP-349925B	15-13P
BA-A2031A020C		EF-242605	2-F4B	EO-338420	3-L1	EV-352621	8-VR1	SP-349925C	15-13B
BA-A2031A020D		EF-242605	14-19B	EO-342936	10-L1	EV-352622	9-VR1	SP-349930A	
BA-A2031A020E		EF-242605	14-20B	EO-345907	3-L3	EV-352645	2-VR1	SP-349930B	14-8B
BA-A2031A020F		EF-306952	11-F1A	EO-345907	3-L2	EV-352646	2-VR2	SP-349930C	14-8C
BD-A2031A030A		EF-306952	14-18A	EQ-337159	2-RL1	EW-349427	14-3B	SP-349930D	14-8D
BD-A2031A030B	15-1P	EF-306957	11-F1B	ER-200746	2-FR3	EW-349428	14-3C	TA-349937	14-16
BD-A2031A030C		EF-306957	14-18B	ER-200939	3-R9	EW-354512	14-3F	TA-349938	14-17
BT-352432	14-1A	EF-346115	2-F3A	ER-302241	2-R 62	EW-354513	14-3E	ZS-308846	14-9
BT-352433	14-1B	EF-346115	2-F4A	ER-302241	2-R65	EW-354514	14-3G	ZS-346742	14-2
BT-352434	14-1C	EF-346115	14-19A	ER-315082	2-R31	EW-354515	14-3A	ZS-498273	14-14
BT-352435	14-1D	EF-346115	14-20A	ER-322591	2-R83	EW-354625	14-3D	ZW-305013	14-14 14-21x
BT-352436	14-1E	EF-601301	11-F1C	ER-323074	2-R61	EZ-631945	14-4x	ZW-698308	14-21X 14-15
EC-311689	2-C38	EF-601301	14-18C	ER-323074	2-R64	SA-202118	14-13	211-090300	14-13
EC-320548	11-C1A	EI-315799	5-IC1	ER-323075	2-R60	SK-332591A			
EC-325320	2-C32	EI-337228	2-IC2	ER-328071	2-R53	SK-332591E			
EC-325320	2-C33	EI-344490	2-IC4	ER-330067	2-R46	SK-343017C			
EC-326583	2-C52	EI-344764	3-IC1	ER-333598	2-R30	SK-343017D			
EC-338411	11-C1B	EI-352640	2-IC3	ER-333609	2-R51	SK-343017F	15-2B		
EC-338496	11-C1C	EI-354080	2-IC5	ER-337754	2-R40	SK-345375D	1.5.O.D		
EC-343855	2-C10	EJ-329610	14-11	ER-337756	2-FR2	SK-345375G			
EC-343855	2-C31	EJ-337405	14-6A	ER-345466	2-R41				
EC-354664	2-C50	EJ-343365	4-J1	ER-349423	2-FR1	SK-345375K			
EC-354664	2-C53	EJ-343365	4-J2	ER-352651	2-R39	SK-349939A			
ED-200749	2-D8	EJ-343365	4-J3	ER-617940	6-R70	SK-349939B SK-349939C			
ED-301911	2-D1	EJ-343380	13-J1	ER-617940	6-R72				
ED-301911		EJ-344370	3-J1	ER-617940	6-R73	SK-349940A			
ED-301911	2-D10	EJ-348218	14-12	ER-617940	6-R74	SK-349940A SK-349940B			
ED-305704	2-D11	EJ-349401	10-TM902	ER-617940	6-R71	SK-349940B SK-349940C			
ED-306320	2-D6	EJ-349401	14-10B	ER-658034	2-R56	CYC CACCALL			
ED-309341	2-D9	EJ-351485	14-10A	ES-337902	14-5	SK-349941A			
ED-324013		EJ-352642	14-6B	ES-349070	14-7	SK-349941B			
ED-329056	t t	EJ-355012	13-J1B	ES-352624	7-SW1	SK-349941E			
ED-337391		EM-336916	5-IND1	ES-352624 ES-352632	2-SW2	SK-349941F			
ED-337391		EO-336934	4-L2	ES-352639		SK-349943A			
ED-337391		EO-336934	4-L2 4-L3	ET-305463	2-SW1	SK-349943B			
ED-348990		EO-336934	4-L3 4-L4	ET-305463 ET-307195	2-TR3	SK-349943C			
ED-348990	-	EO-336934	4-L4 4-L5	ET-310148	2-TR4 2-TR1	SK-349943D			
ED-349656		EO-336934	4-L1			SK-349943E	15-4B		
		20-330934	7-L1	ET-322598	2-TR2	SK-349943F	15-5B		